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# VERMES

COMPILED BY

Part I. STEPHEN PRUDHOE

Part II. R. W. SIMS, B.Sc.

Part III. J. O. MALCOLM

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# 6. VERMES

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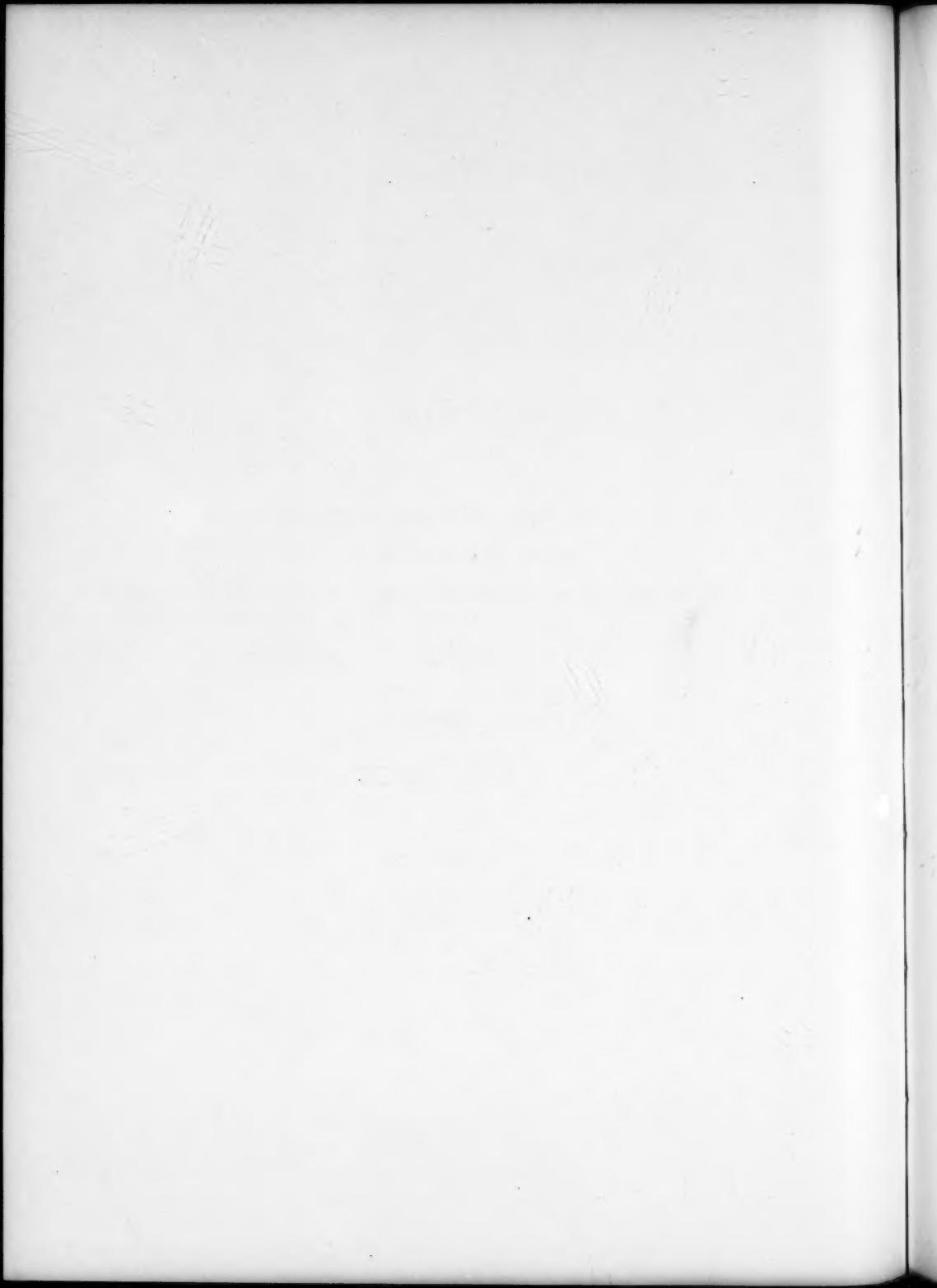
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**NEMATHELMINTHES**

**ROTIFERA, GASTROTRICHA, ECHINODERIDA, CHAETOGNATHA, PRIAPULIDA**

COMPILED BY

**STEPHEN PRUDHOE**



**PLATYHELMINTHES, NEMERTINEA, MESOZOA, NEMATHELMINTHES,  
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*phistomum philleroui*, **Dinnik**, J. A. ; Of *Fasciola nyanzae*, **Dinnik**, J. A. & **Dinnik**, N. N. ; Of *Phrenumonoces bombynae*, **Dollfus**, R. P., **Doby**, J. M. & **Laurent**, P. ; Of *Echinoparyphium petrovi*, **Ginetsinskaya**, T. A. (1) ; Of *Apharyngostriega cornu*, **Ginetsinskaya**, T. A. (3) ; Of *Echinostoma londonensis*, **Khan**, D. (1) ; Of *Paramphistomum microbothrium*, **Lenzy**, J. ; Of *Acanthoparyphium spinulosum*, **Martin**, W. E. & **Adams**, J. E. ; Of *Paramphistomum scoliocoelum*, **Mukherjee**, R. P. (1) ; Of *Paramphistomum explanatum*, **Mukherjee**, R. P. & **Srivastava**, H. D. ; Of *Plagiorchis goodmani*, **Najarian**, H. H. (2), (4) ; Of *Echinostoma pinnicaudatum*, **Nasir**, P. ; Of *Plagiorchis arcuatus*, **Paskalskaja**, M. U. ; Of *Neodiplostomum intermedium*, **Pearson**, J. C. ; Of *Gastrophiscus secundus*, **India**, **Peter**, C. T. (3) ; Of *Pseudodiscus collinsi*, **India**, **Peter**, C. T. & **Srivastava**, H. D. (1) ; Of *Gastrophylax crumenifer*, **Peter**, C. T. & **Srivastava**, H. D. (3) ; Of *Railistinea georgiensis*, **Reid**, W. M. & **Nugara**, D. ; Of new *Austrobilharzia* sp., **Short**, R. B. & **Holliman**, R. B. ; Of two *Hymenolepis* spp. in water-shrew, U.S.S.R., **Spasski**, A. A. ; Of *Cercaria diplostroceria*, **Stunkard**, H. W. (4) ; Of *Olvoria indica*, **Thapar**, G. S. ; Of *Cleidodiscus priaci*, **Toth**, R. J. & **Wolf**, H. ; Of *Transversotrema larvai*, **Velasquez**, C. C. (1) ; Experimental life-history of *Prosthogonimus ovatus*, **Boddeke**, R. ; Life-history note on *Diplostomulum scheuringi*, **Etges**, F. J. (2) ; Life-history note on *Proteocephalus parallacticus*, **Freeman**, R. S. ; Life-history note on *Fasciola hepatica*, **Jeffries**, H. S. & **Dawes**, B. ; Life-history note on *Plagiorchis multiglandularis*, **Stein**, G. ; Life-history note on *Ascocotyle branchialis*, **Timon-David**, J. (3).

**Bionomics of ova and larvae.**—*In vitro* hatching of *Hymenolepis* oncospheres, **Berntzen**, A. K. & **Voge**, M. ; **Voge**, M. & **Berntzen**, A. K. ; Penetration of *Lecithodendriid* cercariae into caddis-fly larvae, **Burns**, W. C. (2) ; Ecology of larval trematodes in Dnieper molluscs, **Chernogorenko**, M. I. ; Precocious development of *Sphaerostoma bramae* in sporocyst in *Bythinia leachii*, **Chernogorenko-Bidulina**, M. I. & **Bliznyuk**, I. D. ; Development of miracidium of *Sanguinicolula davisi*, **Davis**, H. S. et al. ; Penetration of *Fasciola gigantica* into snail-host, **Dawes**, D. (1) ; Migration of juvenile *Fasciola hepatica* in liver of mouse, **Dawes**, B. (2) ; Behaviour of young *Fasciola hepatica* in liver of mouse, **Dawes**, B. (3) ; Unusual brood-capsule from hydatid, **Dissanaike**, A. S. & **Paramanathan**, D. C. (2) ; Effect of *Schistosoma mansoni* on chemotactic responses in snails, **Etges**, F. J. (3) ; Survival of *Fascioloidea magna rediae* in vitro, **Friedl**, F. E. (1) ; *In vitro* survival of axenic rediae of *Fascioloidea*, **Friedl**, F. E. (2) ; Hatching of *Fascioloidea* miracidia, **Friedl**, F. E. (3) ; Penetration of virgulate cercariae into naiaids, **Hall**, J. E. & **Groves**, A. E. ; Abnormalities in trematode larvae, **Hussey**, K. L. & **Stahl**, W. B. ; *Chaetogaster limnai* preying on miracidia, **Khalil**, L. F. (4) ; Migration of *Dicrocoelium dendriticum* metacercaria in final host, **Krull**, W. H. ; Passage of *Schistosoma haematobium* eggs, **Kuntz**, R. E. (1) ; Passage of *Schistosoma mansoni* eggs by rodent hosts, **Kuntz**, R. E. (2) ; Ovoviparity in *Polystomoidella oblonga*, **Oglesby**, L. C. (2) ; Mature oncosphere of *Hymenolepis diminuta*, **Ogren**, R. E. (1) ; Penetration of *Schistosoma mansoni* cercariae into mice, **Radke**, M. G. et al. ; Emergence of *Schistosoma mansoni* cercariae from snail-host, **Richards**, C. S. (2) ; Development of sporocysts of *Haplotrematana intestinalis*, **Schell**, S. C. ; *In vitro* hatching of oncospheres, **Voge**, M. & **Berntzen**, A. K. (1), (2) ; Excystation of *Paragonimus* metacercariae, **Yogore**, M. E. et al.

**Regeneration : Reconstitution.**—Relations between nervous system and pharyngeal induction during

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**Evolution : Phylogeny.**—Phylogeny of the Turbellaria, **Ax**, P. ; Ancestry of the platyhelminths, **Greenberg**, M. J.

**Host-parasite relations.**—Specificity of trematodes, **Bychovskaja-Pavlovskaja**, I. ; Degree of specificity of the Diphyllobothriidae, **Dubinina**, M. (1) ; Copepod relationship of *Diphyllobothrium latum*, **Guttawa**, A. ; Morphological adaptations of cestode eggs, **Jarecka**, L. ; Host-specificity in the genus *Inermicapsifer*, **Mettrick**, D. F. (5) ; Hormonal influences in host-parasite relations, **Szidat**, L. (1) ; Host-parasite relationships of *Echinococcus*, **Webster**, G. A. & **Cameron**, T. W. M. ; Specificity of *Echeneisobothrium maculatum* to *Raia montagui*, **Williams**, H. H. (2).

**Genetics.**—Hybridization of planarians, **Benazzi**, M. & **Benazzi Lentati**, G. ; Polyploidy and speciation in freshwater triclad, **Dahm**, A. G. (2) ; Chromosome-cycle in hybrid planarian, **Benazzi Lentati**, G. (3) ; Experimental polyploidy in *Dugesia lugubris*, **Benazzi**, M. (1) ; Somatic pairing of chromosomes in *Hymenolepis diminuta*, **Douglas**, L. T. (2) ; Aneuploid transmission in planarians, **Papale**, S. ; Chromosomes in polyploid hybrids of *Dugesia lugubris*, **Puccinelli**, I. ; Race-formation in *Gyraea hermaphroditus*, **Reuter**, M.

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S. ; Bionomics of *Diphyllobothrium* in Russian farm foxes, **Petrov**, A. M. & **Dubnitskii**, A. A. ; Population-biology of *Dugesia lugubris*, **Reynoldson**, T. B. (1) ; Ecology of small turbellarians in inland waters of Schleswig-Holstein, **Rixen**, J.-V. ; Biological note on *Nematothorium texomensis*, **Self**, J. T. et al. ; Ecology of marine schistosome larvae in New England, **Sindermann**, C. J. ; Ecology of Turbellaria in Lake Ohrid, **Stankovic**, S. ; Formation of fish-parasite populations in water-reservoirs of European U.S.S.R., **Stolyarov**, V. P. ; Oviposition of *Taenia saginata*, **Swellenegrebel**, N. H. (2) ; Turbellaria in the evaluation of water-purity, **Zelinka**, M. & **Marvan**, P.

**Immunobiology : Serology.**—Serology of hydatid disease, **Allain**, D. S. & **Kagan**, I. G. ; Schistosomiasis slide flocculation test, **Anderson**, R. I. ; Susceptibility of Brazilian snails to *Schistosoma mansoni*, **Barbosa**, F. S. & **Barreto**, A. C. ; Susceptibility of *Planorbis metidensis* to *Schistosoma mansoni*, **Barbosa**, F. S. et al. ; Susceptibility of wild mammals to *Schistosoma mansoni*, **Bruce**, J. I. ; Possible immunogenic rôle of schistosome egg, **Crandall**, R. B. & **Hunter**, G. W., III ; Infectivity of *Schistosoma mansoni* cercariae from snails fed on alginate food, **Ericksen**, D. G. & **Caldwell**, D. R. ; Acquired resistance between *Schistosoma mansoni* and *Schistosomatium douthitti* in mice, **Hunter**, G. W. et al. ; Gel-diffusion techniques for antigenic analysis of helminths, **Kagan**, I. G. ; Electrophoretic techniques in analysis of helminth infections, **Kagan**, I. & **Goodchild**, C. G. ; Isolation of lipid antigen in *Fasciola hepatica*, **Korach**, S. et al. ; Susceptibility of mammals to *Heterobilharzia americana*, **Lee**, H. F. ; Antisera against strigeid and schistosome cercariae, **Le Flore**, W. B. ; Cestode antigens, **Maddison**, S. E. et al. ; Susceptibility of experimental hosts to *Schistosoma bovis*, **Malek**, E. A. ; Immune precipitates of *Spirometra mansonioides* larva in mouse, **Mueller**, J. F. (2) ; Preparation of antigen from *Fasciola hepatica*, **Polyakova**, O. I. ; Fractionation of adult *Schistosoma mansoni* antigen, **Reiber**, S. et al. ; Resistance in mice and monkeys to strains of *Schistosoma japonicum*, **Sadun**, E. H. et al. (1) ; Acquired resistance to strains of *Schistosoma japonicum*, **Sadun**, E. H. et al. (2) ; Immunity and helminthic disease, **Taylor**, E. L. ; Development of immunity in mice to *Schistosoma mansoni*, **Villella**, J. B. et al. ; Susceptibility of rodent-host to *Echinococcus*, **Webster**, G. A. & **Cameron**, T. W. M. ; Effects of natural stresses on acquired resistance to *Hymenolepis nana*, **Weinmann**, C. J. & **Rothman**, A. H.

**Pathology : Effect on Host.**—*Schistosoma spindale* associated with schistosome-dermatitis in India, **Anantaraman**, M. ; Schistosome-dermatitis in Denmark, **Berg**, K. & **Reiter**, H. F. H. ; Mortality in fish due to cestode cysts, **Chauhan**, B. S. & **Ramakrishna**, G. (1) ; *Sanguinicola* miracidia causing death in trout, **Davis**, H. S. et al. ; Schistosome dermatitis in S. Carolina, **Dery**, D. W. & **Teller**, P. F. ; Pancreatic distomiasis in man and bovines, **Galliard**, H. & **Guyet-Rousset**, P. ; Bacteriostatic properties of *Fasciola gigantica*, **Gharib**, H. M. (3) ; Diphyllobothriid plerocercoids causing death in trout, **Hoffman**, G. L. & **Dunbar**, C. E. ; *Ligula* and *Digamma* upsetting carbohydrate metabolism of cyprinids, **Kozareva**, N. A. ; Histopathology of schistosomiasis in unusual hosts, **Lichtenberg**, F. von, et al. ; Tissue-reaction in snail to *Opisthorchis felineus*, **Logachev**, E. D. & **Bruskin**, B. P. ; *Triaenophorus* affecting growth rate of rainbow trout, U.S.S.R., **Lopukhina**, A. M. ; *Heterobilharzia americana* causing death in dog, **Malek**, E. A. et al. ; Histopathology of *Schistosoma mansoni* in snails, **Okpala**,

I. ; Effects of *Raillietina urogalli* on black grouse, **Rykovsky**, A. S. ; Pathology of *Cotylurus platycephalus* in gull, **Sage**, B. L. & **Lawson**, T. R. ; Effect of *Glyptothelminis pennsylvanicus* larvae on glycogen in *Helisoma*, **Snyder**, R. W. & **Cheng**, T. C. ; Pathogenicity of *Cotylophoron cotylophorum*, **Varma**, A. K.

**Epidemiology.**—Schistosomiasis in British West and East Africa, Nyasaland, and Rhodesia, **Blair**, D. M. ; Schistosomiasis in southern Tunisia, **Coumbaras**, A. ; Incidence of *Ogmocotyle indica* in sheep, goats and cattle, India, **Deorani**, V. P. S. ; Mortality due to helminthiasis in England and Wales up to 1880, **Fountain**, A. E. ; Autoinfection in *Hymenolepis nana*, **Heyneman**, D. ; Prevalence of larval trematodes in snails of Colorado, **Hunter**, G. W. & **Birkenholz**, D. E. ; A case of *Schistosoma haematobium* in the Jura, **Jullien**, A. & **Bouveret**, P. ; Seasonal incidence of *Bathybithrium rectangulum* in barbel, **Kulakovskaya**, O. P. ; Seasonal incidence of anoplocephalid cestodes in sheep in the Volga basin, **Kuznetsov**, M. I. (2) ; Incidence of *Diphyllobothrium* in Fort Chimo eskimos, **Laird**, M. & **Meerovitch**, E. ; Exposure of *Tricropicobis* to *Schistosoma mansoni*, **Leigh**, W. H. ; Human schistosomiasis in Ghana, **McCullough**, F. S. ; Seasonal fluctuations of cestodes in sheep in northern India, **Nadakal**, A. M. (1) ; Incidence of *Hymenolepis nana* among natives of an area in Giza Province, **Nagaty**, H. F. et al. ; Survival of *Moniezia expansa* and *M. benedeni* in Russia, **Potemkina**, V. A. ; Transcontinental dissemination of helminths, **Reichenbach-Klinke**, H. H. (1) ; Echinococcosis in Switzerland, 1926-1955, **Schmid**, R. ; Bovine cysticercosis in East Africa, **Urquhart**, G. M. ; Incidence of helminths in man, Nyasaland, **Wagner**, E. D. & **Burnett**, H. S. ; Incidence of helminths in man, Ethiopia, **Wagner**, E. D.

**Control.**—Treatment of urinary schistosomiasis, **Awwad**, S. et al. ; Control of soil-transmitted helminths, **Beaver**, P. C. ; Control of human helminths, **Bizulevičius**, S. ; Effect of thiabendazole on cestode infections, **Campbell**, W. C. (2) ; Therapeutic effect of Ciba 17581 in human schistosomiasis, **Nagaty**, H. F. et al. ; Efficacy of cadmium compounds against *Echinococcus multilocularis*, **Wolfgang**, R. W.

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**Coelenterata.**—*Tetrasrema flavidum* in cloaca of ascidians, **Monniot**, C.

**Chaetognatha.**—*Derogenes* sp. in *Sagitta* spp., Black Sea, **Elian**, L.

**Annelida.**—Metacercariae of *Acanthoparyphium spinulosum* in polychaetes, Australia, **Bearup**, A. J. ; Gravid caryophyllacid cestodes in *Limnodrilus hoffmeisteri*, Iowa, **Calentine**, R. L. & **Ulmer**, M. J. (2) ; New Aporectylid cercaria in a polychaete, Florida, **Oglesby**, L. C. (1).

**Echinodermata.**—*Syndesmus* sp. in *Allocentrotus fragilis*, California, **Berger**, J. & **Profant**, R. J. ; Turbellarian associates of holothurians, **Changeux**, J. P.

**Mollusca.**—*Limnaea* spp. as interhosts of new *Clinostomum* sp., **Agarwal**, S. M. ; *Pyrazus australis* and *Salinatera fragilis* as interhosts of *Acanthoparyphium spinulosum*, Australia, **Bearup**, A. J. ; *Cercaria ocellata* in *Limnaea peregra*, Denmark, **Berg**, K. & **Reiter**, H. F. H. ; Two new *Dicyema* spp. in cephalopods, N. Pacific, **Bogolepova-Dobrokhotova**, I. I. ; Cercariae of *Schistosomatium douthitti* and *Trichobilharzia ocellata* in *Limnaea* spp., Ontario, **Bourns**, T. K. R. ; Virgulate

xiphidiocercariae from Oregon snails, **Burns**, W. C. (1) ; Molluscan interhosts of *Sphaeridiostrema spinacetabulum*, **Burns**, W. C. (3) ; New gymnocephalous cercaria in *Physa mexicana*, **Caballero y C.**, E. et al. ; Haploporid cercaria in *Rissoina browniana*, **Cable**, R. M. ; *Cercariaeum squamosum* in *Planorbis carinatus*, France, **Callot**, J. ; *Helisoma trivolvis* as interhost of new *Glyptothelmin* sp., Pennsylvania, **Cheng**, T. C. ; Metacercaria of *Spelotrema* sp. in *Littorina scutulata*, Washington State, **Ching**, H. L. (2) ; *Radix ovata* var. *baltica* as interhost of *Diplostomum spathaceum* in the Baltic, **Cichowlas**, Z. ; Molluscan hosts of *Paramphistomum phillerouxi*, **Dinnik**, J. A. ; *Lymnaea natalensis* as experimental interhost of *Fasciola nyanzae*, **Dinnik**, J. A. & **Dinnik**, N. N. ; *Pneumonoces* cercaria in *Lymnaea truncatula*, France, **Dollfus**, R. P., **Doby**, J. M. & **Laurent**, P. ; New furcercous cercaria in *Lymnaea acuminata*, India, **Dutt**, S. C. ; New echinostome cercaria in *Helisoma anceps*, Virginia, **Etges**, F. J. (1) ; *Helisoma anceps* as interhost of *Diplostomum scheuringi*, Virginia, **Etges**, F. J. (2) ; *Viwiparyphus viviparus* as experimental interhost of *Echinoparyphium petrovii*, **Ginetsinskaya**, T. (1) ; Virgulate cercariae in *Nitocria dilatatus*, W. Virginia, **Hall**, J. E. & **Groves**, A. E. ; Larval trematodes of marine snails, Florida, **Holliman**, R. B. ; *Diplodiscus* sp. in *Paludina vivipara*, **Honer**, M. R. (1) ; New variety of *Diplodiscus subclavatus* from *Paludina vivipara*, **Honer**, M. R. (2) ; Cercariae of new *Echinoparyphium* sp. in *Lymnaea luteola*, India, **Jain**, G. P. ; New Gymnophalline cercaria in *Littorina saxatilis*, Wales, **James**, B. L. ; Gastropods as interhosts of cestodes in Poland, **Jarecka**, L. ; Two new lophocercous cercariae from *Lymnaea* and *Valvata* spp., Britain, **Khan**, D. (2) ; Two new schistosome cercariae in *Planorbis planorbis*, Britain, **Khan**, D. (3) ; Xiphidiocercariae infesting freshwater snails, London area, **Khan**, D. (4) ; *Bucephalus cucus* cercariae in *Crassostrea virginica*, N. America, **Laird**, M. (2) ; *Asymphyldora annicola* in *Amnicola limosa*, Minnesota, **Larson**, O. R. ; *Bulinus* spp. as interhosts of *Schistosoma bovis* in the Sudan, **Malek**, E. A. ; Cercaria and metacercaria in *Cerithidea hegevitschi californica*, California, **Martin**, W. E. & **Adams**, J. E. ; *Bithynia pulchella* as experimental interhost of *Paramphistomum scolicoecium*, **Mukherjee**, R. P. (1) ; *Indoplanorbis exustus* as interhost of *Cotylophoron indicum*, **Mukherjee**, R. P. (2) ; Two new amphistome cercariae in *Indoplanorbis exustus*, **Mukherjee**, R. P. (3) ; Cercaria of *Paramphistomum explanatum* in *Gyraulus convexiusculus*, India, **Mukherjee**, R. P. & **Srivastava**, H. D. ; New *Cotylaspis* sp. in mussels, Tennessee, **Najarian**, H. H. (1) ; *Lymnaea palustris* as interhost of *Plagiorchis goodmani*, Michigan, **Najarian**, H. H. (2) ; *Lymnaea stagnalis* as interhost of new *Echinostoma* sp., Britain, **Nasir**, P. ; *Bithynia tentaculata* as interhost of *Plagiorchis arcuatus*, **Paskalskaja**, M. U. ; *Peltanculus assimilis* as interhost of *Neodiplostomum intermedium*, Australia, **Pearson**, J. C. ; *Philoththalmus* cercariae in *Batillaria minima*, Florida, **Penner**, R. & **Fried**, B. ; New amphistome cercariae in *Indoplanorbis exustus* and *Bulinus pulchellus*, India, **Peter**, C. T. (1) ; *Indoplanorbis exustus* as interhost of *Gastrodiscus secundus*, India, **Peter**, C. T. (3) ; *Indoplanorbis exustus* as interhost of *Pseudodiscus collinsi*, **Peter**, C. T. & **Srivastava**, H. D. (1) ; Amphistome cercariae from aquatic snails, India, **Peter**, C. T. & **Srivastava**, H. D. (2) ; *Gastrothylax crumenifer* cercaria in *Gyraulus*, India, **Peter**, C. T. & **Srivastava**, H. D. (3) ; *Hydrobia ventrosa* as host of cercariae of *Microphallus papillorobusta* and *Himasthla militaris*, France, **Rebecq**, J. (2) ; *Tropicoribus riisi* as experimental interhost of *Schistosoma mansoni* in Puerto Rico, **Richards**, C. S. (1) ; New mesozoan from

*Octopus*, Florida, **Short**, R. B. ; New *Austrobilharzia cercaria* in *Cerithidea scalariformis*, Florida, **Short**, R. B. & **Holliman**, R. B. ; New lophocercous cercaria in *Limnaea luteola*, India, **Srivastava**, P. S. (1) ; Three new strigeid cercariae in snails, India, **Srivastava**, P. S. (2) ; *Cercaria dipterocerca* in *Nassa obsoleta*, Massachusetts, **Stunkard**, H. W. (4) ; *Zebrina hohenackeri* as interhost of *Dicrocoelium dendriticum* in Russia, **Svadjan**, P. K. ; New notocotyliid cercaria from *Littorina parvula*, S. America, **Szidat**, L. & **Szidat**, U. ; *Gyraulus convexiusculus* as experimental interhost of *Oliveria indica*, **Thapar**, G. S. ; Metacercariae of *Brachylaemus* in *Zonites algirus*, France, **Timon-David**, J. & **Gouzon**, B. ; *Indoplanorbis exustus* as interhost of *Cotylophoron cotylophorum*, **Varma**, A. K. ; *Thiara riquetti* as interhost of *Transversotrema larvæ*, Philippines, **Velasquez**, C. C. (1) ; *Vallonia pulchella* as experimental interhost of *Lyperosomum monenteron*, **Villella**, J. B. ; Furcercaria of *Posthodiplostomum cuticola* in *Planorbis planorbis*, **Vladimirov**, V. L.

**Crustacea.**—*Ectocyclops rubescens* as experimental interhost of *Bothriocephalus kivuensis*, **Baer**, J. G. & **Fain**, A. ; Trematode larvae in *Gammarus locusta* from the Baltic, **Belopolskaja**, M. M. ; New microphallid metacercaria in river crabs, Taiwan, **Chiu**, J. K. ; Copod hosts of *Diphyllobothrium latum*, **Guttown**, A. ; Copodes as interhosts of cestodes in Poland, **Jarecka**, L. ; *Potamon dehaani* as interhost of new *Paragonimus* sp., Japan, **Kamo**, H. et al. ; Metacercaria of *Paragonimus miyazakii* in *Potamon* (*Geothelphusa*) *dehaani*, Japan, **Miyazaki**, I. & **Kamo**, H. ; *Gammarus locusta* and *Sphaeroma hookeri* as hosts of microphallid metacercariae, France, **Rebecq**, J. (1) ; *Microphallus papillorobusta* metacercaria in *Gammarus pulex*, France, **Rebecq**, J. (2) ; *Arctodiaptomus ulomskyi* as interhost of *Diphyllobothrium latum*, S. Urals, **Utkina**, M. A.

**Insecta.**—Metacercariae of *Allasogonoporus vespertilionis* and *Acantharium oregonense* in larvae of *Limnophilus* sp., Oregon, **Burns**, W. C. (2) ; *Pneumonoces* encysting in *Culicid* larvae, France, **Dollfus**, R. P., **Doby**, J. M. & **Laurent**, P. ; Cestode larvae in Polish insects, **Kisielewska**, K. ; Dung-beetles as interhosts of helminths, **Miller**, A. ; *Plagiorchis goodmani* metacercaria in larva of *Limnophilus indivisus*, Michigan, **Najarian**, H. H. (2) ; Odonata as interhosts of *Plagiorchis arcuatus*, **Paskalskaja**, M. U. ; Ants as experimental interhosts of *Raillietina georgiensis*, **Reid**, W. M. & **Nugara**, D. ; *Formica rufibarbis* and *Proformica nasuta* as experimental interhosts of *Dicrocoelium dendriticum*, **Svadjan**, P. K.

**Acari.**—Oribatei interhosts of *Moniezia expansa* and *M. benedeni*, **Kuznetsov**, M. I. (1).

**Fishes.**—Metacercaria of new *Clinostomum* sp. in *Ophiocephalus punctatus*, India, **Agarwal**, S. M. ; Two new Digenea in fishes from Puget Sound, **Aldrich**, L. E. ; Trematodes from salmon fingerlings in the R. Narova, Russia, **Bauer**, O. ; Polycotyline metacercaria in cranial cavity of *Glossogobius giuris*, India, **Bhowmick**, R. M. ; New *Multitestis* sp. from Mexican fish, **Bravo Hollis**, M. & **Brenes** M., R. R. (1) ; New *Khavia* sp. in carp, Iowa, **Calentine**, R. L. & **Ulmer**, M. J. (1) ; Cestode cysts in Indian fishes, **Chauhan**, B. S. & **Ramakrishna**, G. (1) ; New *Bothriocephalus* sp. in *Schilbeoides insignis*, Virginia, **Cheng**, T. C. & **James**, H. A. ; Trematodes from fishes in Friday Harbor, Washington, **Ching**, H. L. (3) ; *Diplostomum spathaceum* metacercariae in Baltic fishes, **Cichowlas**, Z. ; New *Bucephaloidea* sp. in southern flounder, Louisiana, **Corkum**, K. C. (1) ; New *Phyllodistomum* in hogchoker,

Louisiana, **Corkum**, K. C. (2) ; *Hemirurus communis* in *Anguilla anguilla*, France, **Balozet**, L. & **Sicart**, M. ; New Monogenea on Mexican marine fish, **Caballero y C.**, E. & **Bravo Hollis**, M. ; *Sanguinicola davisi* in *Salmo clarki* and *S. gairdneri*, Oregon, **Davis**, H. S. et al. ; Tentaculariid cestodes in fishes from W. Africa, Algeria and Suez, **Dollfus**, R. P. (2) ; Helminths of Czechoslovakian fishes, **Dyk**, V. & **Lucky**, Z. ; *Dactylogyrus* spp. from Czechoslovakian fishes, **Ergens**, R. (1) ; New *Gyrodactylus* sp. on *Cottus gobio*, Slovakia, **Ergens**, R. (2) ; New *Faustula* sp. from a fresh-water fish, India, **Gupta**, P. D. & **Srivastava**, C. B. ; Caryophyllacids from Indian freshwater fishes, **Gupta**, S. P. (1) ; Trematodes of fresh-water fishes, India, **Gupta**, S. P. (3) ; New monogenetic trematode from African fish, **Gusev**, A. V. (1) ; Review of the Dactylogyridae of fresh-water catfish, **Gusev**, A. V. (2) ; New *Capsula* sp. on a Mexican fish, *Hidalgo Escalante*, E. ; *Ligula intestinalis* L. from fresh-water fishes, Poland, **Huculak**, F. ; New *Saccacelium* sp. in *Mugil cephalus*, N. Carolina, **Hunter**, W. S. & **Thomas**, L. J. ; *Phyllobothrium* larva in oar-fish, N. America, **Hutton**, R. F. ; New *Orientocreadium* sp. in *Clarias*, Sudan, **Khalil**, L. F. (2) ; New *Hysterolecitha* sp. in mudsucker, California, **King**, R. E. & **Noble**, E. R. ; Pike and perch as hosts of *Diphyllothorium latum* larvae in Kuebyshev reservoir, **Kosheva**, A. F. ; *Tetracotyle annuligerum* in vitreum of *Perca fluviatilis*, Poland, **Kozicka**, J. ; Helminths of fishes, Russia, **Kudrjawewa**, E. ; *Bathynothrium rectangulum* in *Barbus barbus* and *B. meridionalis petenyi*, Russia, **Kulakovskaya**, O. P. ; Two caryophyllacid cestodes of carp, U.S.S.R., **Kulakovskaya**, O. P. & **Krotas**, R. A. ; Metacercariae of *Apophallus muhlini* in bitterling and bream, **Lucky**, Z. ; New *Microcotyle* sp. on *Chelodipterus saltator*, Uruguay, **Mañé-Garzón**, F. (2) ; Digenea from Fijian fishes, **Manter**, H. W. ; Digenea from Hawaiian fishes, **Manter**, H. W. & **Pritchard**, M. H. ; *Ligula intestinalis* larva in *Barbus* spp., S. Rhodesia, **Mettrick**, D. R. (1) ; Two new *Phyllodistomum* spp. in Siluroid fishes, India, **Motwani**, M. P. & **Srivastava**, C. B. ; Trematodes from Red Sea fishes, **Nagaty**, H. F. ; Six new anaporphurine trematodes from Red Sea fishes, **Nagaty**, H. F. & **Abdel Aal**, T. M. (1) ; Digenea from Red Sea fishes, **Nagaty**, H. F. & **Abdel Aal**, T. M. (2) ; Helminths of salmonid fishes, Czechoslovakia, **Pacak**, S. ; Three Monogenea on Israeli carp, **Paperna**, I. (1) ; Monogenea of cyprinid and clarid fish, Israel, **Paperna**, I. (2) ; Hexostomatid monogeneans on American fishes, **Price**, E. W. ; *Tristomella pricei* and *T. laevis* on a black marlin, S. Africa, **Pritchard**, M. H. ; Haplo-splanchnid trematodes from Hawaiian fishes, **Pritchard**, M. H. & **Manter**, H. W. ; Juveniles of *Monaxine bivaginalis* described from *Formia niger*, India, **Ramalingan**, K. ; Monogenea and Digenea in surgeon-fish, Hawaii, **Randall**, J. E. ; New Isoparorchid trematode in *Arius jella*, India, **Rao**, K. H. ; New *Diplostomulum* from *Diploodus annularis*, **Rebecq**, J. & **Leray**, C. ; New *Echinobothrium* sp. in *Raja montagui*, Britain, **Rees**, G. (2) ; Three new fish hosts for *Microcotyle centropristes*, Germany, **Reichenbach-Klinke**, H.-H. (2) ; New forms of *Diplozoon* from German freshwater fish, **Reichenbach-Klinke**, H.-H. (3) ; Monogenea from marine fishes, Pacific, **Robinson**, E. S. ; Anomalous proteocephalid cestodes from catfishes, **Sneed**, K. E. ; Two new *Emoleptalea* spp. from a fresh-water fish, India, **Srivastava**, P. S. (4) ; New sp. of *Allocreadium* from fresh-water fish, India, **Srivastava**, P. S. (5) ; Heteromicrocotyliid Monogenea from Indian fishes, **Unnithan**, R. V. ; Trematodes and cestodes from fishes in Black Sea, **Valkanov**, A. ; *Transversotrema larvai* metacercaria

in *Lates calcarifer* and other fishes, Philippines, **Velasquez**, C. G. (1) ; Digenea from Philippine food-fishes, **Velasquez**, C. C. (2) ; *Cryptogonimidae* trematodes in Philippine food-fishes, **Velasquez**, C. C. (3) ; *Tetrahyrnchus fragilis* larvae in *Microbogon undulatus*, Venezuela, **Vogelsang**, E. G. & **Mayaudon** T., H. ; Helminths of Czechoslovakian fishes, **Vojtek**, J. (1) ; Helminths of Czechoslovakian fishes, **Vojtek**, J., **Folkmanova**, B. & **Ergens**, R. ; *Cainocreadium shawi* in *Prosopium williamsoni*, U.S.A., **Weatherly**, N. F. & **Canaris**, A. G. ; Redescription of *Echeneibothrium maculatum* from *Raja montagui*, England, **Williams**, H. H. (2).

**Amphibia**.—Redescription of *Mesocelium travassosi* from *Bufo*, Costa Rica, **Caballero y C.** & **Brenes** M., R. R. ; New *Glyptothelmins* sp. in *Hyla crucifer*, Pennsylvania, **Cheng**, T. C. (2) ; New *Brachycolium* sp. in salamanders, Maryland, **Cheng**, T. C. & **Chase**, R. S. ; *Diplostomulum scheuringi* in *Notophthalamus viridescens*, Virginia, **Etges**, F. J. (2) ; Trematodes from Anura in Kaliningrad area, **Golikova**, M. N. (1) ; *Fibricola* metacercariae in *Hyla cinerea*, Louisiana, **Lumsden**, R. D. ; New *Catadiscus* sp. in *Pseudis meridionalis*, Uruguay, **Mañé-Garzón**, F. (1) ; Helminths of amphibians, Kiev, Russia, **Masurnowitsch**, B. ; *Cephalochlamys namequevis* in *Xenopus*, S. Rhodesia, **Mettrick**, D. R. (1) ; *Neodiplastomum intermedium* metacercaria in frogs and tadpoles, Australia, **Pearson**, J. C. ; Helminths of amphibians, Czechoslovakia, **Prokopic**, K. ; New *Opisthiohygla* sp. in giant salamander, China, **Rim**, H. J. & **Wallace**, F. G. ; Progenetic metacercaria of *Ratzia parva* in tadpole of *Rana esculenta*, France, **Timon-David**, J. (2) ; *Ascocotyle branchialis* metacercaria in tadpoles, France, **Timon-David**, J. (3) ; *Rana esculenta* as host of *Ascocotyle branchialis* metacercaria, **Timon-David**, J. (4) ; Helminths from amphibians, Idaho, **Waitz**, J. A. (1) ; New *Baeretta* sp. in salamander, Idaho, **Waitz**, J. A. & **Mehra**, K. N. ; Trematodes from amphibians, Oregon, U.S.A., **Weatherly**, N. F. & **Canaris**, A. G.

**Reptilia**.—*Astiotarema impletum* and *Stunkardia dilymphophia* in *Enydra granosa*, India, **Ahluwalia**, S. S. ; New *Ochetosoma* sp. in colubrid snake, Costa Rica, **Brenes**, R. R. & **Arroyo**, G. ; Redescription of *Glyptothelmins palmipedis* in Costa Rican toad, **Brenes**, R. R. & **Arroyo**, G. ; New *Paralophophryne* sp. in *Basilicus* sp. and *Ctenosaura s. similis*, Costa Rica, **Brenes**, R. R., **Arroyo**, G. & **Montero-Gei**, F. ; Digenic trematodes from edible turtles in Mexico, **Caballero Rodriguez**, G. ; New paramphistome trematode in freshwater turtle, Mexico, **Caballero y C.**, E. (2) ; Trematodes from Costa Rican crocodiles, **Caballero y C.**, E. & **Brenes** M., R. R. ; Trematodes of freshwater turtles, Republic of Panama, **Caballero y C.**, E., **Zerecero y D.**, M. C. & **Grocott**, R. G. ; Digenic trematodes in chameleons, Madagascar, **Capron**, A., **Deblock**, S. & **Brygoo**, E. R. ; Two new *Xenophrynx* spp. in Indian Cobra, India, **Chatterji**, P. N. & **Kruidenier**, F. J. ; New *Macravestibulum* sp. in *Pseudemys*, Florida, **Damian**, R. T. ; *Plagiostoma* spp. in *Lacerta*, France, **Dollfus**, R. P. (5) ; Redescription of *Metaleptophallus gracillimus* from *Natrix natrix*, Poland, **Grabda-Kazubka**, B. ; Trematodes in *Chelone mydas* from the Caribbean, **Gupta**, S. P. (6) ; New *Pleurogonius* sp. in Carolina diamondback terrapin, **Hunter**, W. S. ; *Polystomoides coronatus* in *Pseudemys dorsignyi*, Uruguay, **Mañé-Garzón**, F. (3) ; New *Polystomoides* sp. from the buccal cavity of Uruguayan turtle, **Mañé-Garzón**, F. & **Gil**, O. (1) ; Trematodes from Uruguayan turtles, **Mañé-Garzón**, F. & **Gil**, O. (2) ; Three new spp. of the genus *Telorchis* from

Uruguayan turtles, **Mañé-Garzón**, F. & **Gil**, O. (3) ; Pseudophyllideans from reptiles, S. Rhodesia, **Mettrick**, D. F. (1) ; *Paralophophrynx arctus* redescribed from an iguanid, Nicaragua, **Neiland**, K. A. (2) ; Trematodes from European snakes, **Odënning**, K. (2) ; *Neodiplostomum* larva in *Natrix n. natrix*, Berlin, **Odënning**, K. (6) ; Redescription of *Polystomoidella oblonga* from *Sternotherus odoratus*, Florida, **Oglesby**, L. C. (2) ; New *Cephalogonimus* sp. in *Trionyx hurum*, India, **Rai**, S. L. ; New *Ocochristica* sp. in Indian wall-lizard, **Singal**, D. P. ; *Bothriodus parvum* from the Australian monitor, **Stunkard**, H. W. & **Gandal**, C. P. ; Two Anoplocephalid cestodes in Rhodesian reptiles, **Wahid**, S. (1) ; Helminths from reptiles, Idaho, **Waitz**, J. A. (2).

**Aves.**—New *Clinostomum* sp. in *Bubulcus* and *Ardeola*, India, **Agarwal**, S. M. ; Helminths from South Moravian geese, **Bolek**, E. & **Schanzel**, H. ; New *Sphaeridiotrema* sp. in domestic duck, **Burns**, W. C. (3) ; Three trematodes from harlequin duck, Washington State, **Ching**, H. L. ; Helminths in British game-birds, **Clapham**, P. A. ; New *Nematoxiparatenia* sp. in a swan, Belgium, **Cotteleer**, C. & **Schyns**, P. ; *Brachylaemus arcuatus* in birds of Richelieu, **Dollfus**, R. P. (4) ; *Anomotaenia* sp. in *Tringa ochropus*, France, **Dollfus**, R. P. (6) ; *Choanotaenia* in *Certhia familiaris*, France, **Dollfus**, R. P. (7) ; *Diplostomum* sp. in *Gavia immer*, U.S.A., **Dubois**, G. (1) ; Strigidae from N. American birds, **Dubois**, G. & **Rausch**, R. ; New *Cladotenia* sp. in turkey-buzzard, U.S.A., **Hwang**, J. C. (1) ; New *Echinoporphium* sp. in domestic duck, India, **Jain**, G. P. ; Helminths in peacocks, **Kassimov**, H. B. ; New *Paralepida* sp. in sacred ibis, Sudan, **Khalil**, L. F. (1) ; New *Renicola* sp. from *Somateria mollissima*, Kandalaksha Sea, **Kulatschkowa**, V. ; Platyhelminths in Anatidae, **Lapage**, G. ; *Fibricola cratera* in *Eudocimus albus*, Louisiana, **Lumsden**, R. D. ; Helminths of teal, Czechoslovakia, **Macko**, J. K. ; *Pseudochoanotaenia colloclavis* in *Chautura pelagica*, N. America, **Manter**, H. W. & **Snyder**, R. ; *Rhopalias macracanthus* in *Meleagris gallopavo*, Georgia, **McKeever**, S. ; New *Ondersteopoertia* sp. from crowned plover, S. Rhodesia, **Mettrick**, D. F. (2) ; New Dilepidine cestode from crested barbet, S. Rhodesia, **Mettrick**, D. F. (3) ; Helminths from domestic ducks in Moravia, **Novak**, O. & **Schanzel**, H. ; *Plagiorchis* spp. in *Apus apus* and *Hirundo rustica*, Germany, **Odënning**, K. (8) ; New echinostome in Little Egret, Vietnam, **Odënning**, K. (9) ; Diplostomidae in birds, Berlin, **Odënning**, K. & **Bochhardt**, I. ; Helminths of the osprey, **Oshmarin**, P. G. & **Parukhin**, A. M. ; Hens as experimental hosts of *Plagiorchis arcuatus*, **Paskalskaja**, M. U. ; Helminths from British birds, **Pemberton**, R. T. ; New *Paraphystomum* sp. in purple moorhen, India, **Rai**, S. L. & **Agarwal**, S. M. ; *Microphallus papillorobustus* in *Larus ridibundus*, **Rebecq**, J. (1) ; New *Raillietina* sp. in wild and domestic turkeys, U.S.A., **Reid**, W. M. & **Nugara**, D. ; New *Lutztrema* sp. in *Turdus merula*, Czechoslovakia, **Rysavy**, B. (1) ; Helminths of birds, Czechoslovakia, **Rysavy**, B. (2) ; *Cotylurus platycephalus* in *Larus marinus*, England, **Sage**, B. L. & **Lawson**, T. R. ; Davaineid and buiferinid cestodes in birds, India, **Singh**, K. P. (1) ; Dilepidine cestodes in birds, India, **Singh**, K. P. (2) ; Hymenolepidid cestodes in birds, India, **Singh**, K. P. (3) ; Amabiliid, diplopisthiid and progyrnetaenid cestodes in birds, India, **Singh**, K. P. (4) ; New species of *Proechinocephalus* from an Indian cattle egret, **Srivastava**, P. S. (3) ; Helminths of domestic birds, Czechoslovakia, **Stefflova-Leiska**, M. ; New *Tanaisia* sp. in coot, Argentina, **Szidat**, L. (2) ; *Notocotylus* spp. in birds

from South America, **Szidat**, L. & **Szidat**, U. ; Helminths of Falconiformes, Czechoslovakia, **Tenora**, F. & **Lusk**, S. ; Passerines as experimental hosts of *Posthodiplostomum minimum*, **Ulmer**, M. J. (1) ; Schistosomes from *Larus delawarensis*, Iowa, **Ulmer**, M. J. (2) ; *Collyriclum faba* in *Holoquisculus l. lugubris*, Venezuela, **Vogelsang**, E. G. & **Mayaudon**, T., H. ; *Apophallus muhlingi* in a black-headed gull, Czechoslovakia, **Vojtek**, J. (2) ; *Arostellina reticulata* in a Brazilian humming bird, **Wahid**, S. (1) ; Cestodes from birds, Oregon and Washington, U.S.A., **Weatherly**, N. F. & **Canaris**, A. G.

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